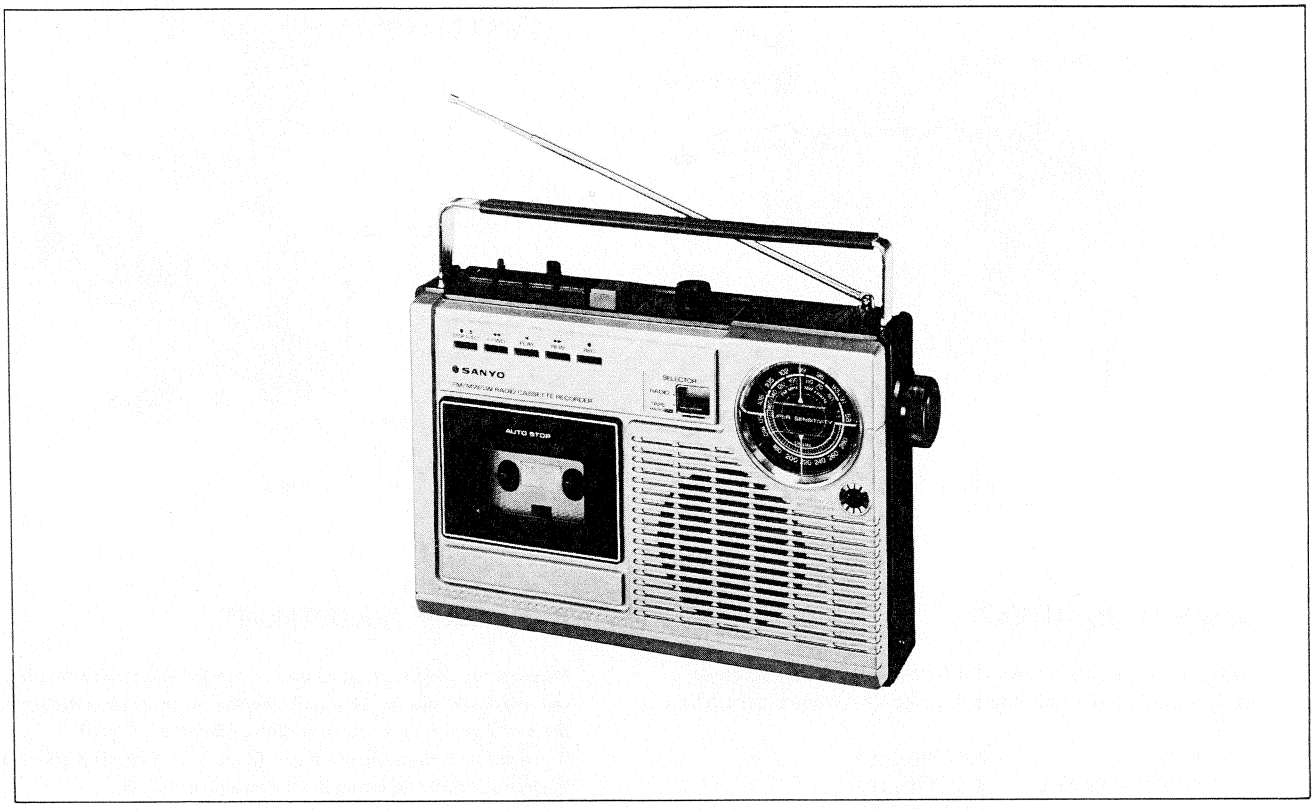
SERVICE MANUAL

SANYO

CASSETTE RECORDER

M2402-2LE
(EUROPE)



SPECIFICATIONS

Frequency range	FM: 87.5 – 108MHz MW: 525 – 1,605kHz LW: 150 – 285kHz
Output power	1.5 W maximum
Power source	DC: 6V "D" (UM-1) x 4 AC: 220V, 50Hz
Dimensions (Approx.)	320 (W) x 90 (D) x 210 (H) mm (12-19/32" x 3-17/32" x 8-9/32")
Weight (Approx.)	2.7 kg. (6 lbs.) including batteries

* Specifications subject to change without notice.

ADJUSTMENT OF PINCH ROLLER

1. Set the unit to the PLAY mode.
2. Apply a tension gauge to the pinch roller. Read the gauge at the precise moment when the pinch roller separates from the capstan.
3. If the gauge reading is within a range of 450 – 650g, no adjustment is necessary. If otherwide, make adjustment by changing the force of the spring coil. (See exploded view No.12)

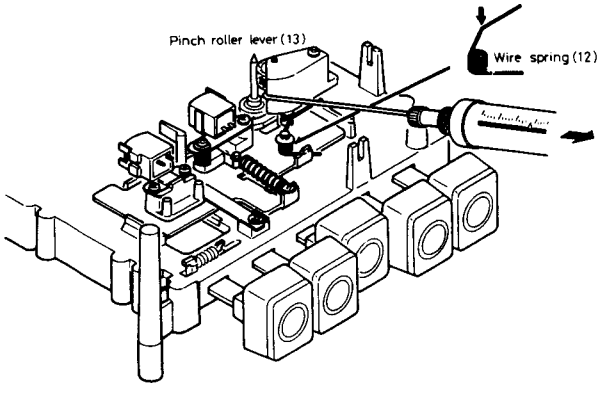


Fig.1

ADJUSTMENT OF HEAD AZIMUTH

1. Connect the unit to a power source and insert a test cassette tape (7K Hz pre-recorded) in the cassette compartment.
2. Connect an 8 ohm dummy load with the VTVM across it to the EXT. SP jack on the unit.
3. Set the unit into the PLAY mode
4. Turn the head azimuth adjusting screw until the maximum value with reading on the VTVM.
5. Fasten the adjusting screw securely by applying paint or glue.

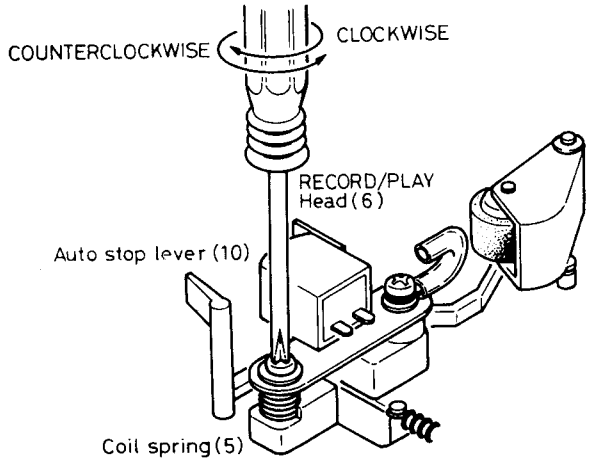


Fig.2

TORQUE ADJUSTMENT

1. Set the unit to the PLAY, FAST FORWARD or REWIND mode.
2. Measure each torque with a torque gauge. They should be as following;

PLAY	30 – 65g/cm
FAST FORWARD	65 – 110g/cm
REWIND	65 – 110g/cm

3. If each torque fails to reach the standard value. Clean the drive belt, flywheel, motor pulley, take-up reel, idler and rewind roller with a cotton swab soaked in alcohol.

AUTO-STOP ADJUSTMENT

Measure the senser pressure with a tension gauge with the unit set in the playback mode. The unit should be shut off when the senser pressure stand within a range of 30 to 55 grams. (Fig. 3)
If the shut-off mechanism fails to function at a senser pressure of 30 to 55 grams, adjust the spring coil (Mechanism No. 49).

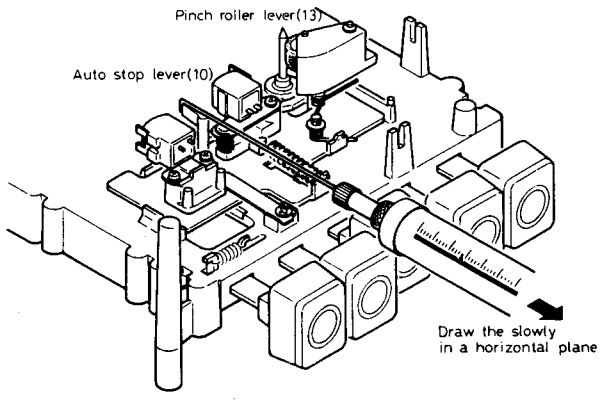


Fig.3

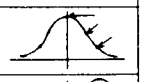
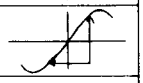
TUNER ADJUSTMENT

AM ADJUSTMENT Speaker impedance 3 ohm.

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.T.	Connect sweep generator to Test Loop.	Connect oscilloscope to EXT. SP terminals	460 KHz	Low end of dial scale. At position of un-required signal.	T304, T305 T306	MAX.
2	O.S.C.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	505 KHz (400 Hz 30% modulation)	Low end of dial scale	L108	MAX.
3				1670 KHz (400 Hz 30% modulation)	High end of dial scale	VCT-4	
4	ANT.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L107A	MAX.
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale	VCT-3	
6	Repeat adjustment.						

PREPARE:
1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, AM SG, VTVM and oscilloscope.
3. Selector switch to "MW".
4. Use a screwdriver with plastic for all adjustments.

FM ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to test point TP-1 or TP-2(G).	Connect oscillo-scope to TP3 (H) or TP5 (G).	10.7 MHz	Near max. capacity of VC. at position with unrequired signal.	T301, T302	
2	Ratio Det.		Connect oscillo-scope to TP4 (H) or TP5 (G).			T303	
3	O.S.C.	Connect FM SG. to test point TP-1(H), TP-2(G).	Connect VTVM to speaker terminal.	87.25MHz (400 Hz 30% modulation)	Low end of dial scale	L106	MAX.
4				109.0 MHz (400 Hz 30% modulation)	High end of dial scale	VCT-2	
5	ANT.	Connect FM SG. to test point TP-1(H), TP-2(G).	Connect VTVM to speaker terminal.	90.0 MHz (400 Hz 30% modulation)	90.0MHz on dial scale	L104	MAX.
6				106.0 MHz (400 Hz 30% modulation)	106.0 MHz on dial scale	VCT-1	
7	Repeat adjustments.						

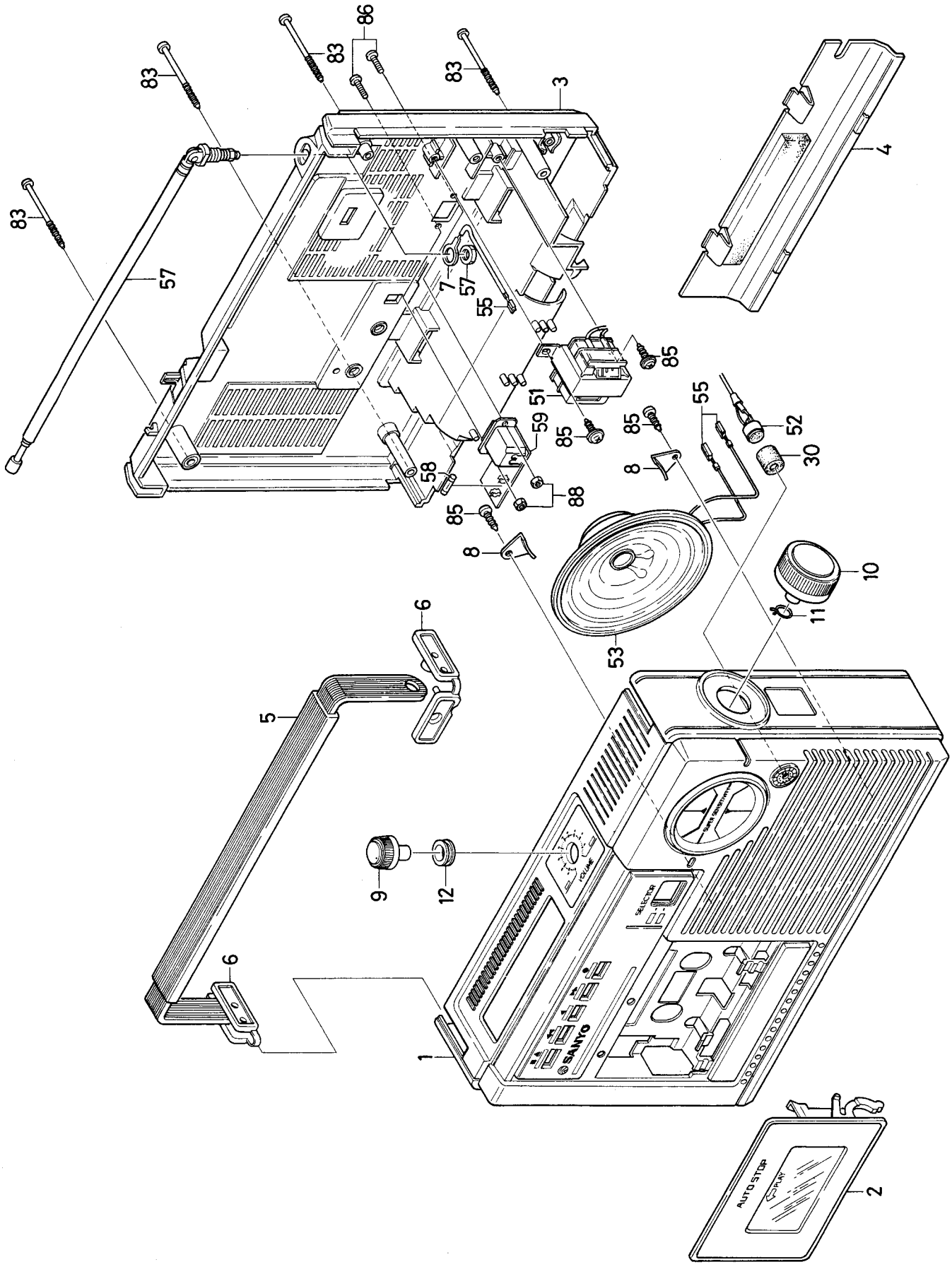
PREPARE:
1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, FM SG, VTVM and oscilloscope. FM antenna input impedance is 75 ohm.
3. Use a screwdriver with plastic for all adjustments.

LW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	O.S.C.	Connect AM SG to Test Loop	Connect VTVM to EXT. SP. terminals	145 KHz (400Hz 30% modulation)	Low end of dial scale.	L109	MAX.
2				295 KHz (400Hz 30% modulation)	High end of dial scale.	CT-2	
3	ANT.	Connect AM SG. to Test Loop	Connect VTVM to EXT. SP. terminals	160 KHz (400Hz 30% modulation)	160 KHz on dial scale.	L107B	MAX.
4				280 KHz (400Hz 30% modulation)	280 KHz on dial scale.	CT-1	
5	Repeat adjustments.						

PREPARE:
1. Set the dial pointer to very left line dial scale.
2. Connect signal generator to dummy antenna.
3. Use screw driver with plastic for all adjustments.
4. Selector switch to "LW".

CABINET EXPLODED VIEW



PARTS LIST

Key No.	Part No.	Description	Q'ty
PACKING			
	141-6-132T-95609	Individual Carton	1
	141-6-144T-28200	Form Plastic Case	1
	141-6-144T-28300	Form Plastic Case	1
	141-6-231T-35500	Inner Polye Cover, Set	1
ACCESSORY			
	141-6-410T-29601	Instruction Manual	1
	4-241T-10873 4-241T-12671 4-241T-13800	or Cassette Tape	1
	4-243T-77900 4-243T-83400	or Power Supply cord	1
CABIENT			
1	141-0-111T-35502	Cabinet Assy	1
2	141-0-124T-21400	Top Lid Assy	1
3	141-0-126T-24508	Back Lid Assy	1
4	141-0-128T-12802	Battery Lid Assy	1
5	141-0-171T-14200	Handle Assy	2
6	141-2-271T-14200	Bracket, Handle	1
7	123-2-472R-11100	Lug, Rod ANT	1
8	141-2-372T-03700	Bracket, Speaker	2
9	141-2-163T-51600	Rotary Knob, Volume	1
10	141-2-163T-29200	Rotary Knob, Tuning	1
11	141-2-852T-33400	Spring Wire, Tuning Knob	1
12	141-2-352T-10300	Spacer, VR Knob	1
CHASSIS			
21	141-2-311T-29000	Chassis	1
22	141-2-581T-11800	Gear, Dial	1
23	141-2-566T-07500	Tuning Shaft	1
24	141-2-457T-23300	Special Washer	1
25	141-2-146T-17631	Dial Scale	1
26	141-2-742T-18100	Lever	1
27	141-2-853T-39401	Spring Plate	1
29	141-2-363T-04701	Bracket, VC	1
30	141-2-385T-02600	Bracket, Mic	1
	141-6-479T-34800	Label	1
HAND WARE			
81		Pan Hd. tapping 3 x 8mm	3
82		Pan Hd. tapping 3 x 12mm	1
83		Pan Hd. tapping 3 x 45mm	2
84		Hexagon Hd. Bolt 2.6 x 10	1
85		Pan Hd. tapping screw w/washer 3 x 8mm	3
86		Pan Hd. screw 2.6 x 12	2
87		Pan Hd. screw w/spring washer 3 x 4mm	1
88		Hexagon nut 2.6mm	2
ELECTRICAL PARTS			
51	4-251T-82300	Power Trans	1
52	4-153T-11700	Microphone	1
53	4-151T-26400	Speaker	1
55	4-235T-34600	Socket	3
57	4-244T-03200	Telescopic Red antenna	1
TUNER & AMP. PCB ASSY			
58	141-4-233T-28200	P.C Board Assy, Tuner & Amp.	1
		(AMP SECTION)	
	4-235T-05571	Socket, Ext SP/Mic	2
	4-231T-76700	Switch, Radio/Tape	1
	4-231T-59800	Slide Switch, R/P	1
	4-222T-65100	Variable Resistor, Volume	1
	141-2-464T-26300	Fixer	1
	4-235T-34871	Socket, DIN	1
L701	4-252T-06200	Choke Coil	1

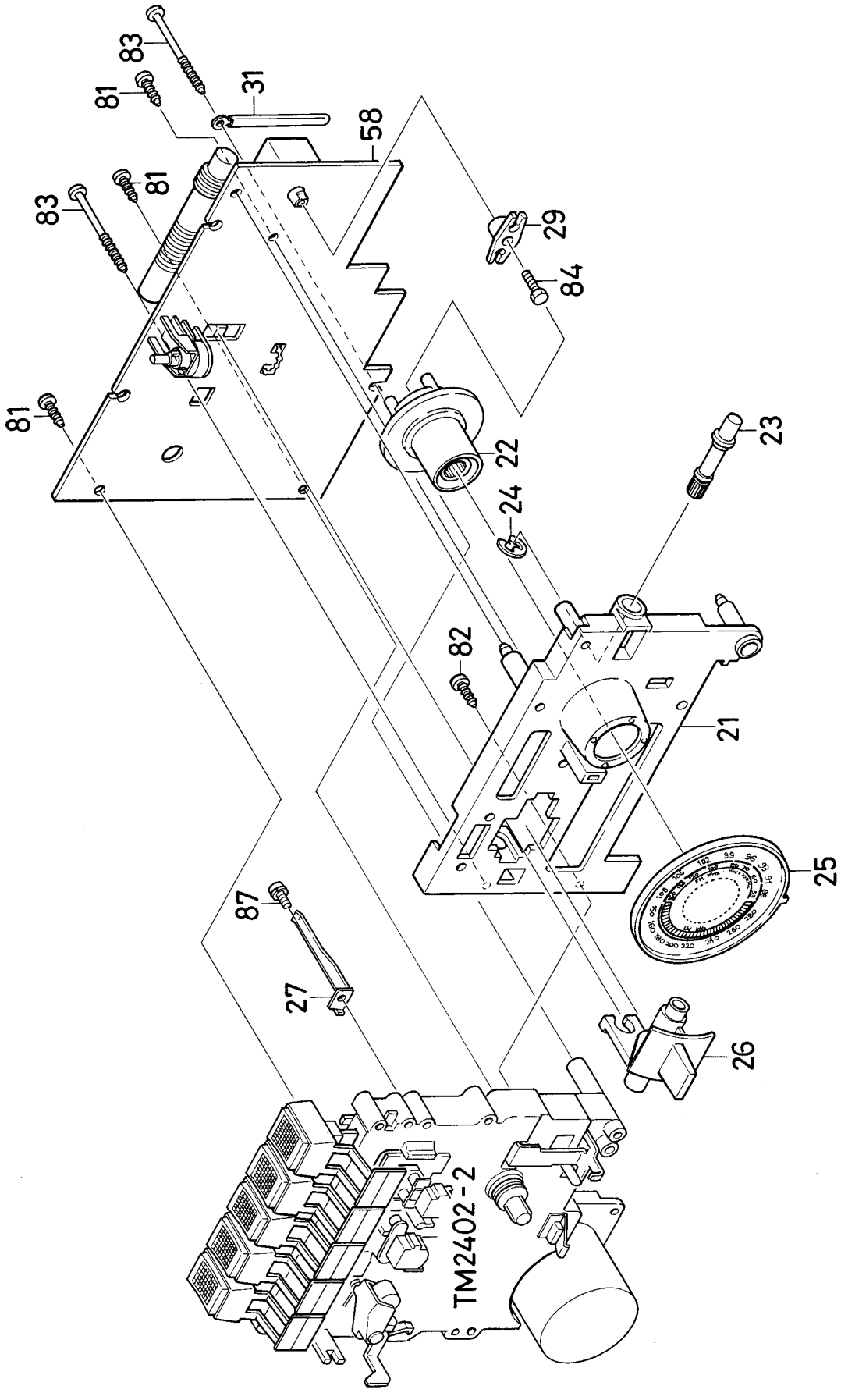
Key No.	Part No.	Description	Q'ty
TUNER & AMP. PCB ASSY			
IC701		IC LA4100S	1
Q701,702		Transistor 2SC536	2
D705		Diode 1S2473	1
		(TUNER SECTION)	
L107A, B	4-257T-36801	ANT Coil Assy	1
L109	4-231T-76700	O.S.C Coil	1
L108	4-258T-27510	O.S.C Coil	1
T301	4-256R-20810	I.F.T.	1
T302	4-256R-15110	I.F.T.	1
T303	4-256R-02310	I.F.T.	1
T304,305	4-256R-00100	I.F.T.	2
T306	4-256R-00210	I.F.T.	1
VC-1,VC-2 VC-3,VC-4	4-224R-35000	Variable Capacitor	1
CT-1,TC-2	4-224T-15400	Trimmer	2
L101	4-265R-00410	VHF Coil	1
L102	4-265R-00610	VHF Coil	1
L103	4-265R-01210	VHF Coil	1
L104	4-265T-02710	VHF Coil	1
L105	4-265R-05010	VHF Coil	1
L106	4-265T-51310	VHF Coil	1
B101	123-2-471R-10400	Core	1
S101	4-238T-11300	Switch	1
CF301	4-256T-80400 4-256T-80471 4-256T-80472 4-256T-80473 4-256T-80474	IF. Filter, 10.7M Red IF. Filter, 10.6M Blue IF. Filter, 10.73M Orange or IF. Filter, 10.64M Blach IF. Filter, 10.76M White	1
	4-235T-34600	Socket, Speaker	1
	141-2-322T-57300	Shield Plate, IF	1
		Screw, Pan Hd. 2.6 x 4, VC	2
Q101		Transistor 2SC930 RF	1
Q102,301		Transistor 2SC930 CONV	2
Q302,303		Transistor 2SC930 IF	2
D107		Varystor VD1211M	1
D102		Diode SD115	1
D101,103, 104,105, 106,303		Diode DS442X or 1S2473	6
D704		Zener Diode RD4.7E B or YZ047A	1
D301,302		Diode IN60	2
RESISTORS			
		(AMP SECTION)	
R720		Carbon 27 Ohm ±10% 1/4W	1
R705		Carbon 68 Ohm ±10% 1/4W	1
R721,722		Carbon 100 Ohm ±10% 1/4W	2
R701		Carbon 1K Ohm ±10% 1/4W	1
R724		Carbon 1.5K Ohm ±10% 1/4W	1
R716		Carbon 2.2K Ohm ±10% 1/4W	1
R725		Carbon 3.9K Ohm ±10% 1/4W	1
R704,719		Carbon 4.7K Ohm ±10% 1/4W	2
R707		Carbon 5.6K Ohm ±10% 1/4W	1
R702,715		Carbon 12K Ohm ±10% 1/4W	2
R718		Carbon 18K Ohm ±10% 1/4W	1
R717		Carbon 33K Ohm ±10% 1/4W	1
R711		Carbon 39K Ohm ±10% 1/4W	1
R703		Carbon 47K Ohm ±10% 1/4W	1
R710		Carbon 18K Ohm ±10% 1/4W	1
R706		Carbon 560K Ohm ±10% 1/4W	1
R713		Carbon 470K Ohm ±10% 1/4W	1
R714		Carbon 27 Ohm ±10% 1/4W	1
R726		Carbon 560 Ohms ±10% 1/4W	1
R723		Carbon 5.6K Ohm ±10% 1/4W	1
R709,712		Carbon 10K Ohm ±10% 1/4W	2
R708		Carbon 22K Ohm ±10% 1/4W	1
		(TUNER SECTION)	
R107		Carbon 100 Ohm ±10% 1/4W	1
R109		Carbon 180 Ohm ±10% 1/4W	1
R310		Carbon 270 Ohm ±10% 1/4W	1
R304		Carbon 330 Ohm ±10% 1/4W	1
R305,316, 104		Carbon 560 Ohm ±10% 1/4W	3
R311,103		Carbon 1K Ohm ±10% 1/4W	2
R308		Carbon 1.5K Ohm ±10% 1/4W	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
RESISTORS			
R302		Carbon 1.8K Ohm ±10% 1/4W	1
R111		Carbon 3.3K Ohm ±10% 1/4W	1
R328		Carbon 5.6K Ohm ±10% 1/4W	1
R318		Carbon 8.2K Ohm ±10% 1/4W	1
R319,325		Carbon 10K Ohm ±10% 1/4W	2
R324		Carbon 8.2K Ohm ±10% 1/4W	1
R320		Carbon 15K Ohm ±10% 1/4W	1
R307		Carbon 22K Ohm ±10% 1/4W	1
R306,317		Carbon 47K Ohm ±10% 1/4W	2
R108		Carbon 100K Ohm ±10% 1/4W	1
R327		Carbon 47 Ohm ±10% 1/4W	1
R101		Carbon 2.2K Ohm ±10% 1/4W	1
R113		Carbon 10 Ohm ±10% 1/4W	1
R106		Carbon 1K Ohms ±10% 1/4W	1
R110		Carbon 33 Ohm ±10% 1/4W	1
R112		Carbon 150 Ohm ±10% 1/4W	1
R326		Carbon 100 Ohm ±10% 1/4W	1
R309		Carbon 180 Ohm ±10% 1/4W	1
R303		Carbon 560 Ohm ±10% 1/4W	1
R312,315, 329		Carbon 1K Ohm ±10% 1/4W	3
R313,314		Carbon 5.6K Ohm ±10% 1/4W	2
R322		Carbon 56K Ohm ±10% 1/4W	1
R321		Carbon 100K Ohm ±10% 1/4W	1
R102,301		Carbon 120K Ohm ±10% 1/4W	2
R105		Carbon 1.5K Ohm ±10% 1/4W	1
R323		Carbon 330K Ohm ±10% 1/4W	1
R114		Carbon 10 Ohm ±10% 1/4W	1
		(AMP SECTION)	
C735		AL Electrolytic Capacitors 0.1μF 16V +40 −20%	1
C701		AL Electrolytic Capacitors 0.22μF 16V +40 −20%	1
C706		AL Electrolytic Capacitors 0.47μF 10V +40 −20%	1
C703,708, 713		Electrolytic 1μF 25V	3
C741		Electrolytic 33μF 10V	1
C716		Electrolytic 47μF 16V	1
C702		Electrolytic 100μF 6.3V	1
C737		Electrolytic 100μF 10V	1
C721		Electrolytic 100μF 16V	1
C717,739, 718		Electrolytic 220μF 10V	3
C723		Electrolytic 470μF 6.3V	1
C740		Electrolytic 470μF 10V	1
C729		Electrolytic 2200μF 10V	1
C705		Ceramic 82pF 50V ±10%	1
C719,738, 711		Ceramic 220pF 50V ±10%	3
C733		Ceramic 470pF 50V ±10%	1
C720		Ceramic 820pF 50V ±10%	1
C714		Ceramic 0.001μF 50V ±10%	1
C704,709, 715		Ceramic 0.0022μF 50V ±10%	3
C736		Ceramic 0.01μF 50V +80 −20%	1
C722		Mylar 0.15μF 50V ±20%	1
		(TUNER SECTION)	
C322		Electrolytic 0.47μF 6.3V	1
C314,313		Electrolytic 4.7μF 6.3V	2
C316,317		Electrolytic 470μF 6.3V	2
C120		Styrol 220pF 50V ±5%	1
C121		Styrol 270pF 50V ±5%	1
C116,312		BC CON 0.0068μF 25V ±20%	2
C304,315		BC CON 0.01μF 25V ±20%	2
C301,303, 311		BC CON 0.022μF 25V ±20%	3
C118,310		BC CON 0.047μF 25V ±20%	2
C305		BC CON 0.1μF 12V ±20%	1
C306		Ceramic 1PF 50V ±0.25PF	1
C308		Ceramic 2PF 50V ±0.25PF	1
C108		Ceramic 2pF 50V ±0.25pF	1
C319		Ceramic 5pF 50V ±0.25pF	1
C119,325		Ceramic 6pF 50V ±0.25pF	2
C103,107		Ceramic 10pF 50V ±10%	2
C101,326, 127		Ceramic 15pF 50V ±10%	3
C102,109		Ceramic 20pF 50V ±10%	2

Key No.	Part No.	Description	Q'ty
CAPACITORS			
C122		Ceramic 30pF 50V ±10%	1
C323		Ceramic 33pF 50V ±10%	1
C309		Ceramic 100pF 50V ±10%	1
C318		Ceramic 100pF 50V ±10%	1
C104		Ceramic 470pF 50V ±10%	1
C114		Ceramic 4pF 50V ±0.25pF	1
C115		Ceramic 10pF 50V ±0.25pF	1
C307		Ceramic 30pF 50V ±10%	1
C124		Ceramic 150pF 50V ±5%	1
C125		Ceramic 8pF 50V ±0.25pF	1
C110		Ceramic 330pF 50V ±10%	1
C106		Ceramic 0.001μF 50V ±10%	1
C324,126		Ceramic 0.0022μF 50V ±10%	2
C320		Ceramic 0.0033μF 50V ±10%	1
C111		Ceramic 0.01μF 50V +80 −20%	1
C117,302		Ceramic 0.022μF 50V +80 −20%	2
C105,112, 321		Ceramic 0.039μF 50V +80 −20%	3
POWER SOURCE PCB ASSY			
59	141-4-233T-28300	P.C Board Assy, Power Source	1
	4-235T-56100	Socket, AC input	1
	141-2-135T-44900	Cover	1
	141-2-381T-04200	Bracket, Fuse	2
D701,702, 703,704		Diode SR1K2	4
D710,712, 725,726		Ceramic Cap. 0.022μF 50V +80 −20%	4
	141-2-464T-08700	Fixer	1
	4-234T-02100 4-234T-02171 4-234T-02172	} or Fuse 630mA	1

CHASSIS EXPLODED VIEW

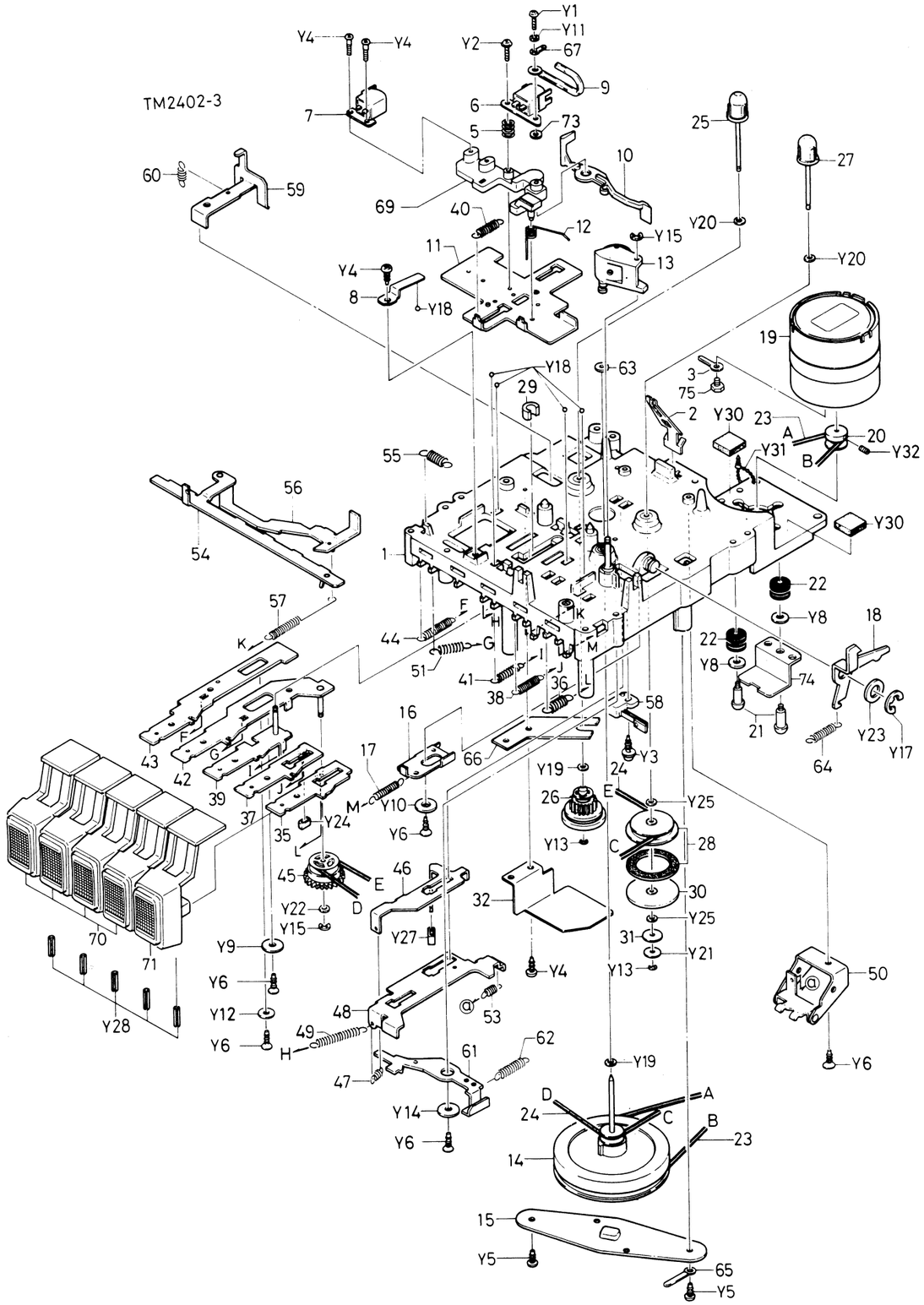


PARTS LIST

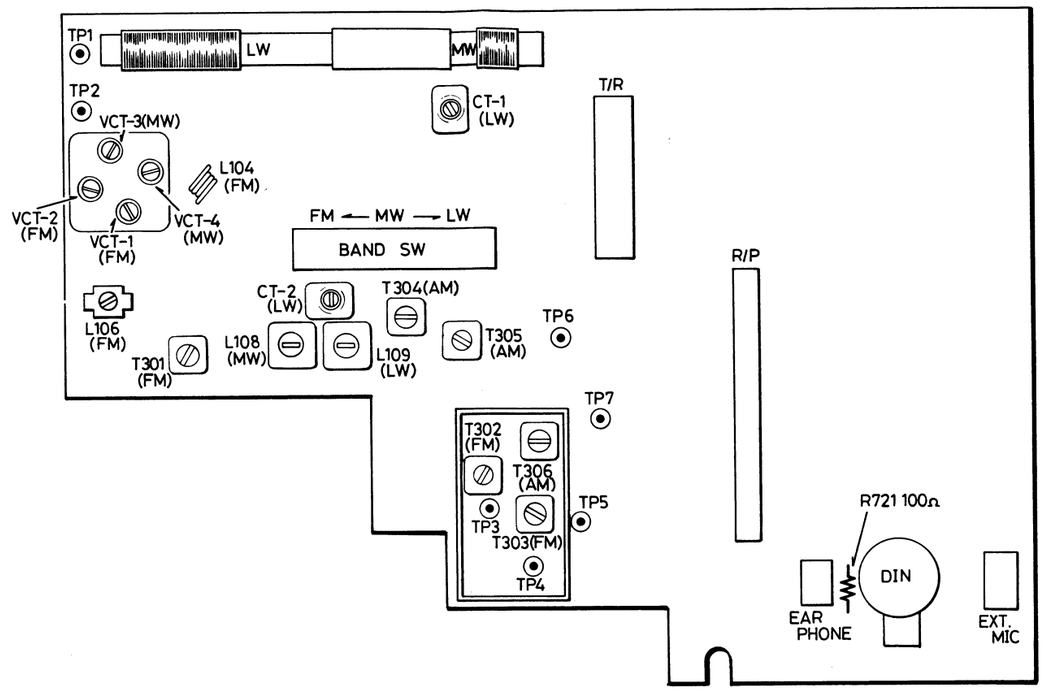
Key No.	Part No.	Description	Q'ty
MECHANISM			
1	141-0-311T-19310	Chassis Ass'y	1
2	141-2-853T-39501	Spring Plate	1
3	123-2-472R-00400	Lug	2
4	141-2-421T-28000	Special Screw, E Head	2
5	141-2-851T-82700	Spring Coil, R/P Head	1
6	4-242T-18800	R/P Head	1
7	4-242T-22000	E Head	1
8	141-2-853T-53200	Spring Plate	1
9	141-2-472T-01001	Lug	1
	141-2-490T-00600	Tube	1
10	141-2-721T-03900	Lever Shat Off	1
11	141-2-731T-37500	Slide, Head	1
12	141-2-852T-35300	Spring Wire	1
13	141-0-545T-04000	Lever, Pinch Roller Ass'y	1
14	141-0-521T-08900	Flywheel Ass'y	1
15	141-0-524T-06303	Bracket, Flywheel Ass'y	1
16	141-2-742T-08202	Lever, Eject	1
17	141-2-851T-80100	Spring Coil	1
18	141-2-742T-80900	Lever, Cassette Up	1
19	4-527T-12800 4-527T-08471	Motor Motor } or	1
NOTE: For a motor pulley replacement, choose a suitable one from the followings in order to assure the correct tape speed.			
20	141-2-661T-65701 141-2-661T-65704 141-2-661T-65703	Motor Pulley 5.9φ Motor Pulley 5.96φ Motor Pulley 6.11φ } or	1
21	141-2-421T-12501	Special Screw, Motor	2
22	141-2-445T-07000	Rubber Cushion	2
23	141-2-564T-15401	Square Belt, Main	1
24	141-2-564T-16500	Belt	1
25	141-0-531T-11300	Reel Plate Ass'y, Supply	1
26	141-0-661T-22700	Pulley Ass'y, Supply	1
27	141-0-531T-11200	Reel Plat Ass'y., Tackup	1
28	141-0-661T-22900	Pulley Ass'y, Takeup	1
29	141-2-461T-28400	Pipe	1
30	141-2-661T-23001	Pulley, Tackup	1
31	141-2-457T-06200	Special Washer	2
32	141-2-322T-31400	Shield Plate	1
35	141-2-731T-43301	Slide, Stop Button	1
36	141-2-851T-73501	Spring Coil	1
37	141-2-731T-43401	Slide, FWD Button	1
38	141-2-851T-93000	Spring Coil	1
39	141-0-731T-43500	Slide Ass'y, Play Button	1
40	141-2-851T-91300	Spring Coil	1
41	141-2-851T-96400	Spring Coil	1
42	141-0-731T-43600	Slide Ass'y	1
43	141-2-731T-43701	Slide, Rec Button	1
44	141-2-851T-93000	Spring Coil	1
45	141-2-661T-22600	Pulley	1
46	141-2-731T-43101	Slide	1
47	141-2-855T-00200	Spring Coil	1
48	141-2-731T-51101	Slide, Main	1
49	141-2-855T-00601	Spring Coil	1
50	141-0-741T-90900	Lever Ass'y, Stop	1
51	141-2-855T-20800	Spring Coil	1
53	141-2-855T-01900 141-2-851T-96200 141-2-855T-12400	Spring Coil Spring Coil Spring Coil } or	1
54	141-0-731T-37300	Slide Ass'y, Lock	1
55	141-2-855T-54500	Spring Coil	1
56	141-2-741T-78400	Lever	1
57	141-2-851T-91200	Spring Coil	1
58	4-231T-59700 4-231T-61601	Switch, Power Switch, Power } or	1
59	141-2-741T-61000	Lever	1
60	141-2-851T-87701	Spring Coil	1
61	141-2-742T-08102	Lever	1
62	141-2-851T-56100	Spring Coil	1
63	141-2-457T-04300	Special Washer	1
64	141-2-855T-03000	Spring Coil	1
65	141-2-472T-01201	Lug	1
66	141-2-853T-07100	Spring Plate	1

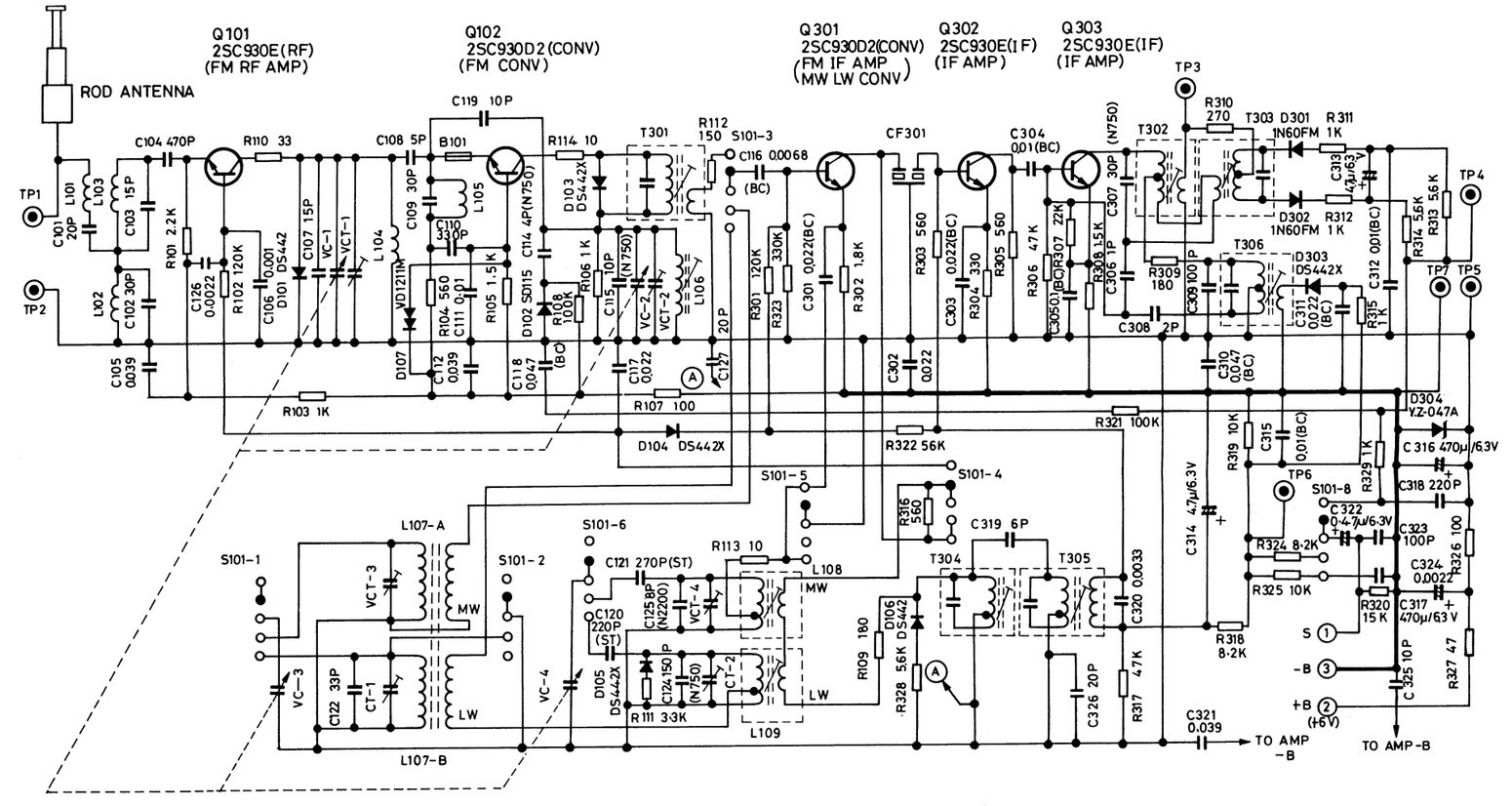
Key No.	Part No.	Description	Q'ty
MECHANISM			
67	123-2-472R-00200	Lug	1
69	141-2-375T-06900	Bracket, Head	1
70	141-2-161T-58600	Push Button	4
71	141-2-161T-58630	Push Button, Stop/Eject	1
74	141-2-322T-19200	Shield Plate	1
75	141-2-421T-22100	Special Screw	1
MECHANISM HARDWARE			
Y1		Screw Pan Head 2x12	3
Y2		Screw Pan Head W/Washer 2x12	1
Y3		Screw Pan Head Tapping W/Washer 2.3x8	1
Y4		Screw Pan Head Tapping 3x6	2
Y5		Screw Pan Head Tapping 3x8	2
Y6		Screw Flat Head Tapping 3x8	5
Y8		Washer 3x8x0.5	2
Y9		Washer 3 x 12 x 1	1
Y10		Washer 4x10x0.8	1
Y11		Spring Washer 2x4.4x0.5	4
Y12		Washer 3x10x1	1
Y13	141-2-457T-23700	Special Washer	2
Y14		Washer 3x13x1	1
Y15	141-2-457T-23000	Special Washer	2
Y17	141-2-457T-23200	Special Washer	1
Y18	141-2-345T-00400	Steel Ball	5
Y19	141-2-453T-31201	Washer 2 x 8.5 x 0.5	1
Y20	141-2-453T-30102	Washer 2.1x4x0.5 Nylon	2
Y21	141-2-453T-31200	Washer 2x8.5x0.25	1
Y22	141-2-453T-30201	Washer 2.5x5x0.25	2
Y23	141-2-453T-30802	Washer 6.2x9.5x0.5 Nylon	1
Y24	141-2-490T-08301	Tube	3
Y25	141-2-453T-30101	Washer 2.1 x 4 x 0.25	2
Y27	141-2-490T-05000	Tube	1
Y28	141-2-488T-01801	Pin	5
Y30	141-2-447T-36000	Cushion	2
Y32		Screw Headless 2 x 4	1

MECHANISM EXPLODED VIEW



PARTS LOCATION



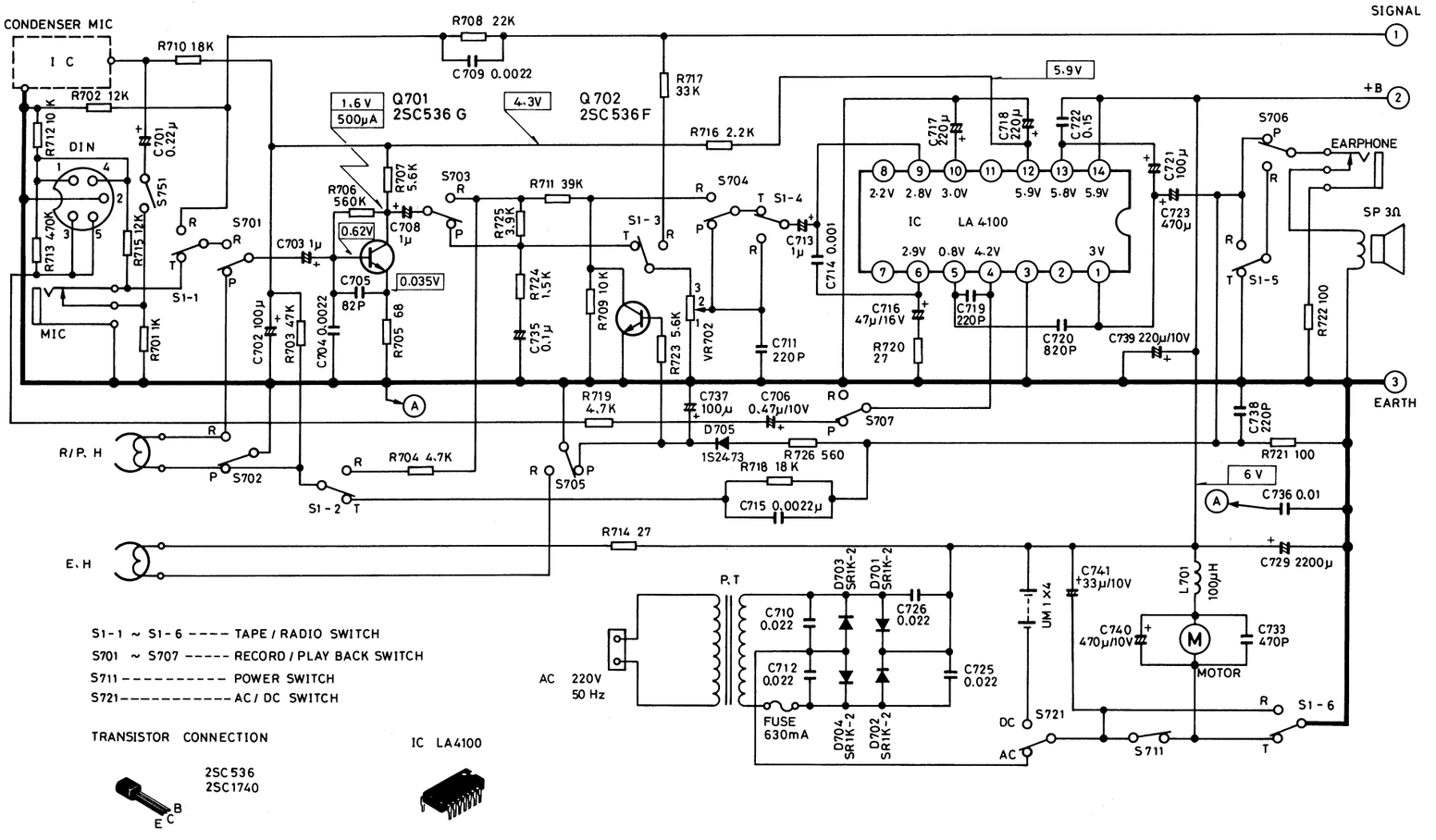


TRANSISTOR VOLTAGE (V)

	Q101		Q102		Q301		Q302	Q303
	FM	MW, LW	FM	MW, LW	FM	MW, LW	FM, MW, LW	FM, MW, LW
C	4.4	4.4	4.4	4.4	3.4	4.4	4.0	4.4
B	3.3	0	1.9	0	3.0	1.85	1.05	2.5
E	2.6	0	1.2	0	2.3	1.2	0.4	1.85

S101-1~8
BAND SW
FM
COM
MW
LW

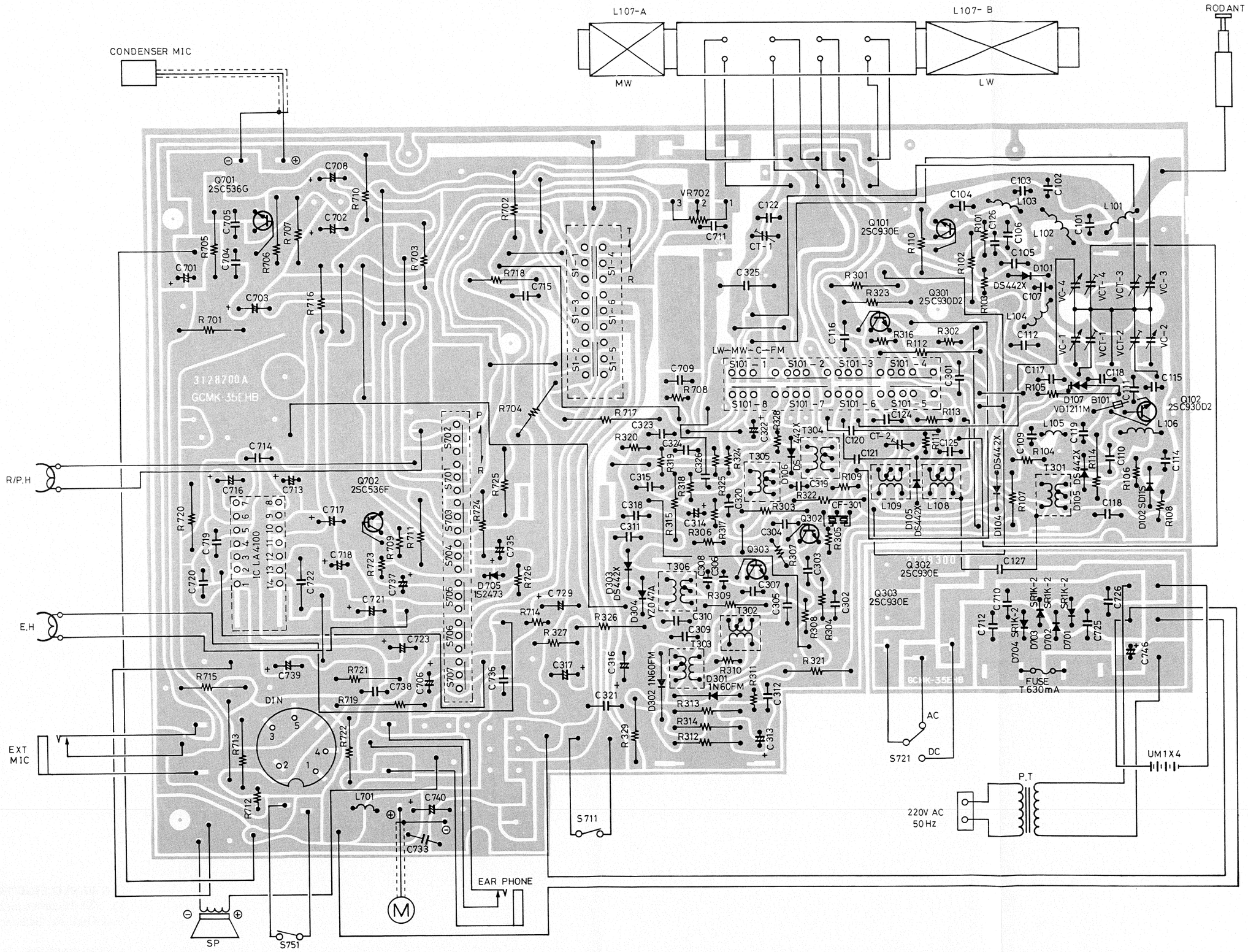
M2402-2/LE 1979.7.



S1-1 ~ S1-6 ---- TAPE / RADIO SWITCH
S701 ~ S707 ----- RECORD / PLAY BACK SWITCH
S711 ---------- POWER SWITCH
S721 ---------- AC / DC SWITCH

TRANSISTOR CONNECTION

IC LA4100


L107-A
MW
L107- B
LW
RODANT
CONDENSER MIC
Q701
2SC536G
C708
C705
C704
C702
R710
R707
R706
R705
C701
C703
R 701
R716
R703
R702
R718
C715
S1-1
S1-2
S1-3
S1-4
S1-5
S1-6
T
R
VR702
C711
C122
CT-1
C325
Q101
2SC930E
C104
C103
C102
L103
L101
L102
C101
C126
C106
R101
R110
R102
C105
D101
DS442X
C107
R103
R301
R323
Q301
2SC930D2
C116
R316
R112
R302
L104
C112
VC-4
VCT-4
VCT-3
VC-3
VC-1
VCT-1
VCT-2
VC-2
LW-MW-C-FM
S101-1
S101-2
S101-3
S101-4
S101-8
S101-7
S101-6
S101-5
C301
C709
R708
R704
R717
C323
R320
C324
R319
C322
R328
T304
C120
CT-2
C121
C124
R113
C125
R111
C117
R105
C118
C115
D107
VD1211M
B101
C111
Q102
2SC930D2
L105
L106
C119
C109
R104
C110
R114
R106
C114
D102 SD15
R108
T301
D105 DS442X
C315
C318
C311
R315
R318
R324
R325
C320
T305
D105
DS442X
C319
R109
R322
CF-301
L109
L108
D105
DS442X
DS442X
D104
R107
R303
Q302
R305
C304
Q303
R307
C303
C127
Q 302
2SC930E
Q 303
2SC930E
C314
R306
R317
C308
C306
T306
C307
R309
T302
C305
R308
R304
C302
D303
DS442X
D304
Y2047A
C310
C309
T303
R310
R311
C312
D302 1N60FM
D301
1N60FM
R313
R314
R312
C313
R326
R327
C316
C317
C321
R329
S711
C729
R714
D705
IS2473
R726
R724
R725
C735
C737
C722
C721
C723
C739
R721
C738
C706
R719
C736
R715
C720
C719
C716
C713
C717
C718
R720
R723
R709
R711
Q702
2SC536F
IC LA4100
S702
S703
S704
S705
S706
S707
S701
P
R
R/P.H
E.H
EXT
MIC
DIN
R713
R722
R712
L701
C740
C733
M
EAR PHONE
SP
S751
C712
C710
SR1K-2
D704
D703
D702
D701
C726
C725
C746
FUSE
T 630mA
AC
DC
S721
UM1X4
P.T
220V AC
50Hz
3128700A
GCMK-35E HB
GCMK-35E-1B